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DATE MAILED: 05/27/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/811,635	03/29/2004	Dou Yuanzhu	9281-4786 2359	
7590 05/27/2005		EXAMINER		
Brinks Hofer Gilson & Lione			CHEN, SHIH CHAO	
P.O. Box 10395 Chicago, IL 60610			ART UNIT	PAPER NUMBER
emougo, ie o	0010		2821	

Please find below and/or attached an Office communication concerning this application or proceeding.

V & GK

	Application No.	Applicant(s)					
	10/811,635	YUANZHU, DOU					
Office Action Summary	Examiner	Art Unit					
	Shih-Chao Chen	2821					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 29 Ma	arch 2004.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☐ This	☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.							
7) Claim(s) is/are objected to.	, , , , , , , , , , , , , , , , , , , ,						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	ſ.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correcti	• • • • • • • • • • • • • • • • • • • •						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
A44 - 1							
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413)							
Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3/29/04</u> .	5)  Notice of Informal P 6) Other:	atent Application (PTO-152)					
S. Rotest and Todemark Office	,						

Application/Control Number: 10/811,635

Art Unit: 2821

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Laubner et al. (U.S. 2002/0149520 A1).

Regarding claim 1, Laubner et al. teaches in figures 2A-2B a patch antenna apparatus comprising: a patch electrode [12] is provided on a top surface of a dielectric substrate [11] disposed above a first ground-plane portion [24] and is connected to current-feed means [14]; wherein the first ground-plane portion is arranged above a second ground-plane portion [10], which has a larger area than the first ground-plane portion (See FIG. 2B), with a predetermined distance therebetween [22]; and the first ground-plane portion is set so as to be excited by the second ground-plane portion at a frequency substantially equal to a frequency at which the patch electrode is excited when current is fed.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Application/Control Number: 10/811,635

Art Unit: 2821

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Laubner et al. (Cited above) in view of Soutiaguine et al. (U.S. Patent No. 6,836,247).

Laubner et al. teaches every features of the claimed invention in paragraph 2, except for a low-noise amplifier circuit.

Soutiaguine et al. teaches in figures 1-2 a low-noise amplifier circuit [16].

In view of the above statement, It would have been obvious to on having ordinary skill in the art at the time the invention was made to use a low-noise amplifier circuit as taught by Soutiaguine et al. in order to amplify a signal from the receiving antenna element (See col. 7, lines 25-32).

#### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 4

Application/Control Number: 10/811,635

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). shill-llow chen

> Shih-Chao Chen Primary Examiner Art Unit 2821

SHIH-CHAO CHEN PRIMARY EXAMINER

SXC

May 23, 2005